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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy	Date: February 2018
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Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	PE 0604221N / <i>P-3 Modernization Program</i>											
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	20.655	1.864	1.361	2.134	-	2.134	0.001	0.000	0.000	0.000	0.000	26.015
3016: <i>Fatigue Life Mgmt Program</i>	20.655	1.864	1.361	2.134	-	2.134	0.001	0.000	0.000	0.000	0.000	26.015

A. Mission Description and Budget Item Justification

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection techniques.

This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

The FY 2019 funding request was reduced by \$0.036 million to account for the availability of prior year execution balances.

B. Program Change Summary (\$ in Millions)	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>
Previous President's Budget	1.909	1.361	2.169	-	2.169
Current President's Budget	1.864	1.361	2.134	-	2.134
Total Adjustments	-0.045	0.000	-0.035	-	-0.035
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.045	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.035	-	-0.035

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program				Project (Number/Name) 3016 / Fatigue Life Mgmt Program			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
3016: <i>Fatigue Life Mgmt Program</i>	20.655	1.864	1.361	2.134	-	2.134	0.001	0.000	0.000	0.000	0.000	26.015
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection techniques.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: P-3/EP-3 Fatigue Life Management Articles:								1.864	1.361	2.134	0.000	2.134
								-	-	-	-	-
FY 2018 Plans: Fatigue Life Management Program: Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, and assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet. FY 2019 Base Plans: Fatigue Life Management Program: Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, and assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet. The FY 2019 funding request was reduced by \$0.036 million to account for the availability of prior year execution balances FY 2019 OCO Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement: \$.0773M increase supports the P-3/EP-3 sustainment requirements pending the transition to the P-8A Multi-Mission Maritime Aircraft (MMA).												
Accomplishments/Planned Programs Subtotals								1.864	1.361	2.134	0.000	2.134

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Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program				Project (Number/Name) 3016 / Fatigue Life Mgmt Program			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2019</u>	<u>FY 2019</u>	<u>FY 2019</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Complete</u>	<u>Total Cost</u>
• APN/0538: P-3 Series	2.781	0.700	0.829	-	0.829	0.633	0.000	0.000	0.000	0.000	4,911.636
Remarks											
D. Acquisition Strategy											
The Fatigue Life Management Program leverages off of prior work done under P-3 Service Life Extension Program (2451). The Anti-Surface Warfare Improvement Program Operational Requirements Documents 355-88-94 was approved 30 March 94. Work will be performed by Lockheed Martin Aeronautical Systems and other industry participants along with the Naval Air Systems Command Structural Engineering Dept, AIR-4.3. This program supports the 7 June 2003 CNO approved P-3/EP-3 Sustainment Bridge to Multi-Mission Maritime Aircraft.											
E. Performance Metrics											
Successful application of system engineering processes.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy												Date: February 2018					
Appropriation/Budget Activity 1319 / 5						R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program				Project (Number/Name) 3016 / Fatigue Life Mgmt Program							
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
Systems Engineering			C/CPIF	LM : Marietta, GA	10.924	1.000	Jan 2017	0.778	Jan 2018	1.528	Jan 2019	-		1.528	Continuing	Continuing	Continuing
Subtotal				10.924	1.000			0.778		1.528		-		1.528	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
Government Engineering Support			WR	NAWCAD : PAX RIVER, MD	8.496	0.824	Nov 2016	0.543	Nov 2017	0.566	Nov 2018	-		0.566	0.000	10.429	10.449
Travel			WR	NAWCAD : PAX RIVER, MD	0.965	0.040	Oct 2016	0.040	Oct 2017	0.040	Oct 2018	-		0.040	0.000	1.085	1.085
Prior Year costs no longer funded in FYDP			Various	Various : Various	0.270	0.000		0.000		0.000		-		0.000	0.000	0.270	-
Subtotal				9.731	0.864			0.583		0.606		-		0.606	0.000	11.784	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals			20.655	1.864		1.361		2.134		-		2.134	Continuing	Continuing	N/A		
Remarks																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy																							Date: February 2018						
Appropriation/Budget Activity 1319 / 5												R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program								Project (Number/Name) 3016 / Fatigue Life Mgmt Program									
Fatigue Life Mgmt Program		FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Acquisition Milestones																													
Milestones																													
Systems Development																													
Hardware Development																													
Software Development																													
Reviews																													
Test & Evaluation																													
Technical Evaluation		Inventory Fatigue Life Management/Sustainment																											
Operational Evaluation																													
Production Milestones																													
Contract Awards																													
Deliveries																													
2019OSD - 0604221N - 3016																													

2019OSD - 0604221N - 3016

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy	Date: February 2018
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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604221N / <i>P-3 Modernization Program</i>	Project (Number/Name) 3016 / <i>Fatigue Life Mgmt Program</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Fatigue Life Mgmt Program</i>				
Test & Evaluation: Technical Evaluation: Inventory Fatigue Life Management/ Sustainment	1	2017	4	2019